

Please amend the claims as follows:

For the convenience of the Examiner, all claims, including those not changed by the present amendment, have been included. A marked up copy of the claims is attached per rule 37 CFR § 1.121(c)(1)(ii).

1. (Previously Presented) A ski binding release system comprising:
  - a track for receiving a ski binding member;
  - said ski binding member being a member of a forward release binding system having a toe release mechanism, a heel release mechanism and a snow brake that is thrust downward upon a release of the forward release binding system;
  - wherein an automatic release of the forward release binding system maintains a constant mounting distance between the toe release mechanism and the heel release mechanism;
  - a remote transmitter;
  - a receiver mountable on a ski with an actuator connected to the track;
  - wherein a manual activation of the remote transmitter activates the receiver which in turn activates the actuator to move the track, thereby moving the ski binding member;
  - wherein the track further comprises a flat rigid member having a forward and a rear anchor for attachment to a ski;
  - wherein the flat rigid member slides in the anchors;
  - wherein the flat rigid member is controlled by the actuator; and
  - wherein the actuator further comprises a prechargeable gas chamber powering a piston connected to the track which biases the track in a ski position maintaining the constant mounting distance, and a receiver to receive a remote signal and release the actuator from a ski position to a release position by enlarging the mounting distance between the toe release mechanism and the heel release mechanism.

2. (Previously Presented) An improvement to a forward release ski binding release system, said ski binding release system having a toe piece with a release mechanism and a heel piece with a release mechanism to hold a boot, and a snow brake that is thrust downward upon a release of the forward release ski binding system wherein an automatic release of the forward release ski binding release system maintains a constant mounting distance between the toe piece and the heel piece, the improvement comprising:

- a track connected to the heel piece;
- an actuator connected to the track which increases the mounting distance between the toe piece and the heel piece on demand from a remote signal;
- wherein the actuator further comprises a prechargeable compressed gas cylinder having a piston connected to the track; and
- wherein the compressed gas cylinder further comprises a plug which is connected to a linkage, wherein a receiver receives the remote signal and powers the linkage to unplug from the prechargeable compressed gas cylinder to allow a spring to move the actuator from a ski position to a release position by enlarging the mounting distance between the toe piece and the heel piece.

3. (Currently Amended) A ski binding release system comprising:

- a toe and a heel piece forming a forward release binding system having a toe release mechanism and a heel release mechanism and snow brake that is thrust downward upon a release of the forward release binding system, wherein an automatic release of the forward release binding system maintains a constant mounting distance between the toe release mechanism and the heel release mechanism;
- a mechanism having a gas actuator to enlarge the mounting distance between the toe release mechanism and the heel release mechanism on demand from a remote signal;

said mechanism having a housing which contains a connector to a track and having a prechargeable gas chamber with a piston which releaseably forces the track against either the toe or the heel piece, and having a receiver to receive a remote signal to release a gas pressure from the gas chamber;

said track having mounted on it either the toe or the heel piece; and

wherein a manual activation of a remote transmitter causes the remote signal to be received by the receiver to increase the mounting distance.

4. (Previously Presented) A ski binding release system comprising:

a toe and a heel piece designed to have a mounting distance therebetween to secure a ski boot;

said toe and heel pieces being parts of a forward release binding system wherein an automatic release of the forward release binding system maintains a constant mounting distance between the toe and heel pieces and releases a snow brake downward;

an extension mechanism to manually via remote control release the ski boot by enlarging the mounting distance on demand by a remote signal;

said extension mechanism having a housing to contain a prechargeable gas chamber with a piston, a connector to a track which is biased by the prechargeable gas chamber and piston, and a receiver which controls a release of a gas pressure from the gas chamber upon receipt of the remote signal; and

wherein the track further comprises a flat rigid member having a forward and a rear anchor for attachment to a ski, wherein the flat rigid member slides in the anchors.

5. (Previously Presented) An improvement to a forward release ski binding release system, said forward release ski binding release system having a toe piece with a release mechanism and a heel piece with a release mechanism to hold a boot, wherein an automatic release of the forward release ski binding release system maintains a constant mounting distance between the toe piece and the heel piece and releases a snow brake downward; the improvement comprising:

a track connected to the toe piece;  
an actuator connected to the track which increases a mounting distance between the toe piece and the heel piece on demand from a remote signal;  
wherein the actuator further comprises a housing containing a gas loaded piston having a ski position with the gas compressed, and a release position with the gas released, said piston controlled by a receiver which receives a remote signal ; and  
wherein the ski boot is released by causing the toe piece to move to a larger distance from the heel piece via the track.

6. (Canceled by prior Amendment)

7. (Canceled by prior Amendment)

8. (Canceled by prior Amendment)

9. (Previously Presented) The apparatus of claim 3, wherein the transmitter is contained in a ski pole to activate the receiver.

10. (Previously Presented) The apparatus of claim 9, wherein the transmitter further comprises a safety switch to prevent an accidental transmission.

11. (Previously Presented) The apparatus of claim 3 further comprising a mounting plate to house the toe piece and its release mechanism, the track, the heel piece and its release mechanism and the actuator, said mounting plate having a hole for mounting to a ski.

12. (Canceled by prior Amendment)

13. (Canceled by prior Amendment)

14. (Previously Presented) The improvement of claim 2, wherein the plug blocks an outlet tube which emits a loud noise upon release of the plug.

15. (Previously Presented) The improvement of claim 2, wherein a gas in the compressed gas cylinder further comprises a color to assist locating a lost ski in powder upon the release of the compressed gas.

16. (Previously Presented) The improvement of claim 2 further comprising a CO<sub>2</sub> cartridge connected to the prechargeable compressed gas cylinder to provide a source of compressed gas.

17. (Previously Presented) The improvement of claim 16 further comprising a CO<sub>2</sub> cartridge housing and puncture mechanism to charge the compressed gas cylinder.

18. (Canceled by prior Amendment)

19. (Canceled by prior Amendment)

20. (Canceled by prior Amendment)

21. (Canceled by prior Amendment)

22. (Canceled by prior Amendment)

23. (Canceled by prior Amendment)

24. (Canceled by prior Amendment)

25. (Canceled by prior Amendment)

26. (Previously Presented) A ski binding release system comprising:  
a toe and a heel piece;  
said toe and heel pieces each being members of a forward release binding  
system having a toe release mechanism, a heel release mechanism and a  
snow brake that is thrust downward upon a release of the forward release  
of the forward release binding system, wherein an automatic release of  
the forward release binding system maintains a constant mounting  
distance between the toe and the heel piece;  
a mechanism having an actuator to enlarge the mounting distance between  
the toe and the heel piece on demand from a remote signal; and  
said mechanism having a piston which is spring biased to maintain the  
mounting distance in a ski position and a gas source to bias the piston to  
a release position  
when a ski mounted receiver receives the remote signal.

27. (Previously Presented) The apparatus of claim 26 further comprising a  
track suited to receive either the toe or the heel piece, said track connected to the  
mechanism.

28. (Previously Presented) A ski binding release system comprising:  
a toe and a heel piece forming a forward release binding system having a toe release mechanism, a heel release mechanism and a snow brake that is thrust downward upon a release of the forward release binding system, wherein an automatic release of the forward release binding system maintains a constant mounting distance between the toe and the heel piece;  
a mechanism having an actuator to enlarge the mounting distance between the toe and the heel piece on demand from a remote signal;  
said mechanism having a piston which is gas biased to maintain the mounting distance in a ski position and spring biased to a release position when a ski mounted receiver receives a remote signal by releasing the gas from the mechanism; and  
wherein the mounting distance is increased by the mechanism in the release position.

29. (Previously Presented) The apparatus of claim 28 further comprising a track suited to receive either the toe or the heel piece, said track connected to the mechanism, said track being moved into the ski position and the release position by the mechanism.

30. (Previously Presented) The apparatus of claim 1, wherein the receiver, the actuator, the prechargeable gas chamber and the piston are all housed together in a single housing.

31. (Previously Presented) The apparatus of claim 2, wherein the actuator, the prechargeable compressed gas cylinder, the piston, the plug and the linkage are all housed in a single housing.

32. (Previously Presented) The apparatus of claim 3, wherein the mechanism, the gas actuator, the prechargeable gas chamber, the piston and the receiver are all housed in a single housing.

33. (Previously Presented) The apparatus of claim 26, wherein the mechanism, the piston, the receiver and the gas source all share a common housing.

34. (Previously Presented) The apparatus of claim 28, wherein the mechanism, the actuator and the gas biased piston all share a common housing.